

ABSTRACT OF THE DISCLOSURE

An apparatus and method for converting an input image with a plurality of pixels to an output image using an N-dimensional conversion table with a plurality of nodes. The apparatus has a set of RAMS for storing odd-indexed nodes and even-indexed nodes for each dimension of the N-dimensional table. The apparatus also has means for retrieving for each pixel a set of output color values corresponding to nodes adjacent to the pixel in the conversion table. Finally, the apparatus has means for interpolating within each set of output color values to produce the output image.